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NOTICE OF ALLOWANCE AND FEE(S) DUE

26646 7590 03/08/2010

KENYON & KENYON LLP ONE BROADWAY NEW YORK, NY 10004 EXAMINER
SHEVIN, MARK L

ART UNIT PAPER NUMBER

1793 DATE MAILED: 03/08/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/533 607	11/03/2005	Tadashi Jshikawa	52433/794	4087

TITLE OF INVENTION: METHOD OF IMPROVEMENT OF TOUGHNESS OF HEAT AFFECTED ZONE AT WELDED JOINT OF STEEL PLATE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/08/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless correct maintenance fee notifica	correspondence including the delow or directed off	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of r a) specifying a new corres	naintenance fees wi pondence address;	II be r and/or	nailed to the current (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for
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KENYON & F ONE BROADW NEW YORK, N			I he Stat addi tran	reby certify that this	Feets	Transmittal is being	ideposited with the United it class mail in an envelope above, or being facsimile ate indicated below.
							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	1.	ATTOE	RNEY DOCKET NO.	CONFIRMATION NO.
10/533,607	11/03/2005		Tadashi Ishikawa			52433/794	4087
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	06/08/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
SHEVIN,	MARK L	1793	I48-558000				
1. Change of correspondence address or indication of "Fee Address" (3: CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTOSB/122) attached. Tee Address' Indication (or "Fee Address" Indication form PTOSB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered patent attorneys or agent) and the names of up to 2 registered patent attorneys or agents. If no name is intent, no name will be printed.				
PLEASE NOTE: Un recordation as set for (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Com GNEE		(B) RESIDENCE: (CITY	atent. If an assigner assignment. and STATE OR CO	OUNT:	RY)	ocument has been filed for
4a. The following fee(s)			o. Payment of Fee(s): (Plea	on first recombine	. a soul	ionely poid icono foo	channahana)
Issue Fee	are submitted.	-41	A check is enclosed.	se msi reappiy any	previ	ousry paid issue ice	snown above)
	No small entity discount j	permitted)	Payment by credit car	d. Form PTO-2038	is attac	ched.	
Advance Order -	# of Copies		The Director is hereby overpayment, to Depo	authorized to charg sit Account Number	e the r	equired fee(s), any de enclose a	ficiency, or credit any n extra copy of this form).
5. Change in Entity Sta	itus (from status indicate ns SMALL ENTITY stati		☐ b. Applicant is no lon				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte ites Patent and Trademark	d from anyone other than t Office.	he applicant; a regist	tered a	ttorney or agent; or th	e assignee or other party in
Authorized Signature							
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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26646 7	590 03/08/2010	EXAMINER			
KENYON & KE	ENYON LLP	SHEVIN, MARK L			
ONE BROADWA		ART UNIT PAPER NUME			
NEW YORK, NY	10004	1793			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 104 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 104 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/533 607 ISHIKAWA ET AL. Notice of Allowability Examiner Art Unit MARK I SHEVIN 1793 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to IDS and RCE filed 02/12/2010. The allowed claim(s) is/are 1-3 and 5-8. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. ☐ Examiner's Amendment/Comment

/Mark L. Shevin/

Paper No./Mail Date <u>02/12/2010</u>
4. ☐ Examiner's Comment Regarding Requirement for Deposit

of Biological Material

Other .

8. X Examiner's Statement of Reasons for Allowance

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Art Unit: 1793

DETAILED ACTION

Status of Claims

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under Ex Parte Quayle, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on February 12, 2010 has been entered. Claims 1-3 and 5-8, filed July 2nd, 2009, are currently under examination.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted February 12th, 2010 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement has been considered by the examiner. Please refer to applicants' copy of the 1449 form submitted herewith.

Allowable Subject Matter

Claims 1-3 and 5-8 are allowed.

Reasons for Allowance

4. The examiner stands by the previous Reasons for Allowance stated in the Notice of Allowance mailed November 5th, 2009. The following statement includes reasons why claims 1-3 and 5-8 are also patentable over the references filed in the IDS mailed February 12th, 2010:

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Art Unit: 1793

None of the cited references disclose methods of treating a heat affected zone in

a welded joint using an ultrasonic vibration tool having either the claimed pin diameter

or oscillation amplitude. Furthermore, none of the cited references discloses methods

which result in, or would be reasonably be expected to result in the claimed

microstructural changes regarding the average longitudinal axis of crystal grains to a

Thiclostructural changes regarding the average longitudinal axis of crystal grains to a

depth of at least 2 mm from the surface of the treated workpiece.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark L. Shevin whose telephone number is (571) 270-3588 and fax number is (571) 270-4588. The examiner can normally be reached on

Monday - Friday, 8:30 AM - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rov M. King can be reached on (571) 272-1244. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

/Mark L. Shevin/ Examiner, Art Unit 1793

10-533,607

10-533,607 February 25th, 2010

> /George Wyszomierski/ Primary Examiner Art Unit 1793